

ABSTRACT

An apparatus for mixing fluids comprises a housing having at least a portion of its interior, for example, a channel, with capillary dimensions and at least one structural member in the interior adjacent an end of the channel. The dimensions of and placement of the structural member are sufficient such that intermittent application of centrifugal force to the interior of the housing causes movement of the fluid therein. The housing may comprise a mixing chamber or area that is in fluid communication with the interior. The apparatus may comprise a mechanism adapted to generate centrifugal force within the housing to cause movement of fluid in the interior of the housing without exit of fluid therefrom.